Scanned by TapScanner

```
James Charans ) & = kasers
   size ++ !
    (board towards) tring bion
      (1) was a 1 board skirler
       Print & (" 1. & " head - data);
         bead = head -> next:
        buyt & (" \" ").
       void del Catruct node « head-set, int position)
         it (nead-set = NULL)
             setuer:
            temp = head - net:
            if ( Pos = 0)
          took - net - deup - noot:
            less (temp).
           ne her.
     for (int i=0; temp!= Nall 88 i LAOS-1; i++)
         temp = sup -> nest;
           fare ( temp - next);
             (eup -) rest = next;
```

Struct node & head = NOLL;

Push (& head, 12);

Push (& head, 8);

inseq + (& head, 4,9,3);

delete (& head, 12);

ne tuen o;

3

eyeb 7 + statement of the buodson

construct a new Dinkad liet by meeging alternate nodes of two lists for example in list I we have \$ 1,2,33 and in liet 2 we have \$ 4,5,13 in the new list was should name {1,4,2,5,3,6} steps. Explaination of the proopers

there first we should create two now sinted list than we should marge afternate node of second links list belief to the string this belief

step 31. steps and Algorithm involved in the program.

13 cuate a structure.

- 2) Function to insect a node at beginning 3) Function to point singles einted lied u) Function that insects nodes of linked a
- into La orteanogra to exister.
 - E) Program to test the above function.

Code in charge

include c staio.h> # molade c ctalib. W 3 eloca Lours int data; ctuct vode « rest:

push (struct woode * head-not; int word ale

Leve ?

stret vode new-node (strect voded) mollocCrize & Cstruct wodell; cotabo-aver = outab < 2 abon-aver

new-node-> next = (4 head _ net). (head net) - now-node:

void print Visi (Struct woode & head) 3 met 40ge 4 temp madi

(III = ! quet) eliver

Rint F. G. 11. N. 91. Years -> gatal. tend = tend > vopt.

Still 1 (" / U.)

le se apolitante, o * abola toutes) réan bien

```
Sancel wooded a Fixet = a, & v_fixet = d v;
         stran v de de la la verte
          while (a - first! = NULL && v - Rivet!
            = NOCC)
         James - terris - o = tan - sout
           reave - Level -siver
         taen = tame teria-u.
           0- binst -> nont = n-ther,
         i taen - o = teria - o
            r-Birst = rundot.
        * q = /- Pint;
In & main ()
                   allet bath bien
E smact bog a L- ball a d = boll.
    Push cra, mi
     Push (8.0,2).
      Push (8a,11)
      Print & C" First linked liet a: ("
       Print Lict Cali
      Broy C8 n'8);
      ruch ($ 0, 7);
             (s v
```

Push (8 m) Push (& v, us) buutte, necong bry popert nilung. Filh Dict Cus made (a 'RA) Print & (" Moeged Are & Lorked list a: /n") Surret cas; Kint & C., Modified secong Birteg list nily Print list Culi get chase (1: No + UNN D;

#indude cetdio.n>

wold find CM1 as 2003, M1 n, into

int int courd;

int i = 0, h = 0;

for Ci=0; icn; i++)

while (cource r) & & (men);

function = cource r)

frint & (cource);

frint & (cource);

3.

Some costs;

Shy costs;

Shy costs;

Shy costs = 5 = 1002 = 83 + 101 = 83

Shy costs = 2 + 101

Shy costs = 2 + 101

Many costs = 2

3

(i) # include Cetalio.hb

Mchale c stallib.hs

Shuct ctack necound

corposity;

type det stuet checkerecoord & stack;
stack (meiolecetack. Cint mar);

stack s;

c=nalloc Cerze & cethet stacknowly it (=== pull) Print & Cu out of space up, & 1-manage ((cinge of cint)) mark UI va = = puece e- 22 4; E Livet & chace..... 3-> capacits = mab=1; 5 -> +0 = -1 ne tran ces; int is empty (stack.s) 11-=204-2. Newsor in his trul(stacks) natur c-> 40 s = 8-> capacity Evoid push (intro stact 1) (1 e) elles 2i 2 41 3 Frint & (" one Dew"); E bilt t (" I V. V q ! c bried ", v); s & foctt; s -> aleas [2 4940 ?] = N;

```
(the sockes) good for you got the
 & it (is emply (31)
   5 sing the money?
       " o rentem
         Print 1 (" In "). dis popped", s-souloug
                                    (c- Hac.D)
         me hun c-1 peras (2-) to c-- 3)
      (is sul a cal)
       Fin + & (" one flow (");
      Exist & (" /n". 4 : c enquerd': n).
         ittroore v
        in feverier D. Juses C- v
         it (a-> feet = -1)
          or -> Reon + ++;
            in a front and dakete (ause a)
```

Mandestern 13 return o. P= ~ -> accord (a -> lont) En tt Cu / U. 19 9 5 Sears and delet, 61. a-> Reant++; nction bi not d dis play cauera) ileer, i tu (it cie embracas) stret arre ne cons inees b. this inA Read; com 401 ind capereis. typedet sneet are cand a our. que croots ame Cint mad aver a regles (size et cepter anesecong) is ca== Nucces (11 vapers ") & # 11,7 a -> alson a malloc coize of cint it most; 12 carl assay = = null) 1111000311) 84 NIM a -> capacity = mas-1. 9-> Cout = -1: 2-2 real = - 1; conens int is full a Carres a) retien Carreal = = q -scapacil 3:11+ is empty or Course a) ¿ retien (a-) Rent = = -11-Loid enavu laura a, int of Privaledoni") 2 + 1, 177 5 for (:-a r) front: 1 == neal; 1+1) Bit 1 61, 1.9 14 1. 8 - 1 along 6,33 , choice, 1 = 0,1,2, capad

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encla-
  pour E(" in Enter the maximum elementer!
      SCHOOL STREET
          ou = - ( made and Comple
           s = create chart court
             wish ( )
          Essat to Common or 1- suscell 5 Desp
                     vermed ander . 3 existing
         Bun +t C. Euro fr moscrat.
           scom & ( or y. dr., & eloit)
             soitch (ches)
                Print-f(" (n Ente tu elout)
               Scanf (1.81, setc)
                Enavere Caretel;
              break ;
              Cau L'
              triuts as I'm content of the
                    aulu : " 1
               display (a);
                for (i = 0; i c capa city; i++)
           Beant and delite Carls:
```

ar -> feart = -1; a - suar = - " Benci= 0; ic caparily; its "Y= top and pop (S). on due cossi. g print & Culu Hono) dueus A display car; to mage? exect col;

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71 Such Pinery

2 6 2 2 3 me - 7

Hindude astalions #include cetalibihs shoor Louds catabani start robet root. cett tod thead. (1 shortweels were about 10 de 1) Moder Cerge of Cetuck node) jour = stabo ci cuerte ub an node - vou - nort = Chood not. ca heard - net 1 = ned - new Int many Serve had had sure; Pueh Canad, 71. Ruch (& had, 51.
Ruch (& had, 51. Run (& head 1 / Pud Chad 8', Methon oi vois pant alternate Cetud rade tral ¿ 114 com + 201 Were I board & = muly 18 (connt 2. 5== 0) 8 went echad -> date << " ", count++ beard = beard ;

6. (i)

An allow is the data structus that contains a collection of similar type pate data almest whereas the linked let's hate almest as non-permitter data at non-permitter data a tructure contains a cultication of words.

Qinted clearly those as node.

In a lined first truth, you have to start low to need and work your super way truth until you get to the but a to the but ale the should

operation vice nothers will deletion of persons in about the persons where the persons of the persons in shorts liste in the persons of the p

In an assens, memory is assigned severed the co repile the while the as list it is allocated between eventual as execution com wounter.

n'i plustres si si son se cuturels.

Leburar lands si si se sens suases

child lands;

In addition memor utilizetion; serverally considered in the aleas conserved in the aleas represent conserved in other will gallow is obtained.

2 114 01003, 100033 111 1, 1, 1, 1001401, 100033 112 1, 10, 1001401, 100033 2 can f ("1.3", 20, 2:3); 2 can f ("1.3", 20, 2:3); 2 can f ("1.3", 20, 1:4) 2 can f ("1.3", 20, 1:3); 2 can f ("1.3", 20, 1:3); 2 can f ("1.3", 20, 1:3); 3 can f ("1.3", 20, 1:3); 4 can f ("1.3", 20, 1:3); 4 can f ("1.3", 20, 1:3); 6 can f ("1.3", 20, 1:3); 8 ca

v=b2COZ; Position=!

Rov (:=n::>= Pocitions:-Bo (:=n::>= bo (:-13: bo (position -0=v) Bor (:=o::cn::++).

Ruli-1121116、とうか、

List & Curga, posis

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